



# SEWER Checklist

<b>NUMBER</b>		<b>NOT REQ'D</b>	<b>NOT DONE</b>	<b>SATISFIED</b>				
					REVIEW #			
					BY		DATE	
	<b>ITEMS</b>				<b>Location in Standards</b>			

<b>General</b>						
1	Review General Checklist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">See web site</a>	
2	Plans satisfy City's Master Sewer Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.2.1</a>	
3	Sewer Design Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">2.6.5, 6.2.1</a>	
<b>Cover</b>						
4	COG General Notes for Sewer Construction (or on sheet 2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">0.4.7, G-3112</a>	
5	MCESD / Private Sewer Company Block & Approvals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">0.2.3, 2.3.4 (A), 6.1.4(D.1,2.), 2.6.12, G-3112, 2.13.2</a>	
6	Add Utility No Conflict Certification Block (Filled out & Signed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">0.2.3, G-3112</a>	
7	Master Utility sheet 1"=100' scale (include mh #'s, line sizes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">2.11.2(T)</a>	
<b>Plans</b>						
8	Scales 1=20 plan, 1=4 vertical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">2.11.2(L)</a>	
9	All mains shall be in the R/W or easement not less than 20' wide (30' min width for 12" to 20" and deeper than 10', pipes >20" esm't width to be determined)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(C,D) G-3130, G-3132, G-3134, G-3136</a>	
10	No curved sewer lines allowed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(H)</a>	
11	Pavement cuts not permitted (All new pavement is to remain in a new uncut condition for a period of 5 years or pvmt cut fee)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">4.1.7(A.7)</a>	
12	Sewer line & MH shall not cross centerline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(C) 6.3.2(A,B) 6.3.2(B.3) G-3130, G-3132, G-3134, G-3136</a>	
13	Dimension separation between all utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(E) 6.4.4(E), MAG 404-1,2,3</a>	
14	No sewer clean outs allowed in R/W for gravity sewer, allowed on force mains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.2(B.4) 6.2.2(B.4) 6.4.4(D.1)</a>	
15	Sewer line stationing shall be along the pipe centerline or roadway centerline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.2.3(B.3)</a>	
<b>Line Sizes &amp; Cover</b>						
16	Stub at every 1/4 mile on Arterial Streets (12" on 1/2 mile and 8" on 1/4 mile)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17	City Line 8" min	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(A.2) 6.3.1(B.1)</a>	



# SEWER Checklist

NUMBER	ITEMS	NOT REQ'D	NOT DONE	SATISFIED	REVIEW #		
					BY	DATE	

18	4" -15"=DIP, PVC, VCP, 15" -24"=DIP or VCP, >24" case by case (for pipes up to 15' deep use SDR 35, For pipes 15' to 30' use SDR 26)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(A.1) See City Sanitary Sewer Materials List on website</a>
19	Sewer must be DIP if between 1'-2' above water and 2' & > below water (cannot be <1' above and <2' below water)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">MAG 404-1,2,3</a>
20	When sewer crosses an irrigation ditch it must have 4' min cover (or concrete cap)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(F.3&amp;4)</a>
21	When a sewer crosses a basin it must have 3' min cover (or concrete cap)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">3.3.6(C.7.e)</a> , <a href="#">6.3.1(F.3&amp;4)</a> , Per Water Resources Dept
22	Cover 6' min for main, 4' min cover over laterals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.1.3(A)</a> , <a href="#">6.3.1(F)</a>
23	Invert elevations & slopes req'd on stubs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">2.11.2</a>
24	Place a sewer marker ball at end of off-site stubs that are hard to locate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Services**

25	Sewer service taps shall be MAG 440-1 up to 10' deep, COG G-3430 10'-15' deep, G-3430-2 if 15' deep & greater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">MAG 440-1,-4</a> , <a href="#">G-3430-1</a> , <a href="#">G-3430-2</a> , <a href="#">G3429</a>
26	Max # of service lines in MH - 3 in cul-de-sac, 2 at other locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(A.2)</a>
27	Dim & station sewer taps using downhill manhole (with MH sta 0+00)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(A.5)</a>
28	NO service taps to lines 12" or greater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29	Manhole service tap, invert shall not be below outfall pipe crown or 1.5' above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(A.3)</a>
30	No sewer taps to be provided for commercial site without a building unless requested by owner of site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(B.3)</a>
31	3' min spacing between service lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(A.4)</a>
32	New service lines into main must be in mh	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(A.8)</a>
33	Services shall cross under the waterline with a min separation of 12" or sewer shall be DIP or encased	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(C.3&amp;4)</a>



# SEWER Checklist

<b>NUMBER</b>		<b>NOT REQ'D</b>	<b>NOT DONE</b>	<b>SATISFIED</b>				
					REVIEW #			
					BY		DATE	
	<b>ITEMS</b>				<b>Location in Standards</b>			

<b>Manholes</b>					
34	Manholes tied to C/L station & offset	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1 (C)</a>
35	MH spacing 400'- 8" to 15", 500' -18" and larger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.2(B.2)</a>
36	All manholes shall be 5' dia, w/ 30" rim, type 'A' (with corrosion resistant coating & No Steps)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.2(A)</a> , <a href="#">MAG 420</a> , <a href="#">MAG 424</a> , <a href="#">coating per approved materials list</a>
37	Sewer pipes shall not intersect manhole at < 90 degrees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(G)</a>
38	MH shall be located in center of traffic lane & shall not be located in bike lanes, cross walks, sidewalks, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(B.3)</a>
<b>Profile</b>					
39	Check Profile Design (Line slope & length shown)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">Table 6.3-1 2.11.2</a> , <a href="#">2.11.6(A.5)</a>
40	Minimum 2 fps & Maximum 9 fps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(B1) Table 6.3-1</a>
41	Manhole rim elevations shown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">2.11.2</a>
42	0.1' drop at manhole if Alignment changes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(G)</a>
43	Different size pipes match crown in MH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(G.1)</a> <a href="#">6.3.2(C.2)</a>
44	Minimum separation called out in plan & profile	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(E)</a>
45	Encasement shown plan & profile	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(F.4)</a> <a href="#">MAG 404-3</a> , <a href="#">MAG 507</a>
46	Max 12" to inverts across manhole or add drop manhole (no drops between 1'-2.5')	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.2(D)</a> , <a href="#">MAG 426</a>
47	Backflow prevention valves req'd when FF is below the upstream manhole rim elevation (with anti-flood sewer valve)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.3(A.9)</a>
48	Check Cover and Depth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(F)</a>
<b>Pavement Treatment</b>					
49	Any trench cut in existing pavement >600' in length must include resurfacing the pavement. Discuss w/Streets for their preferred alternative to the MAG required coated chips. Add	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">MAG 336.2.4</a>

<b>NUMBER</b>		<b>NOT REQ'D</b>	<b>NOT DONE</b>	<b>SATISFIED</b>				
					REVIEW #			
					BY		DATE	
	<b>ITEMS</b>				<b>Location in Standards</b>			

	const. note to plans				
50	Per Mag 336.2.4.1.F – for lines greater than 300 feet, half street seal coat is required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note Below
<b>Add notes:</b>					
51	Contractor to tie-in new work to the existing, active system only after completion of the new work and specific approval of the Engineering Inspector to make the tie-in.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(I)</a>
52	On residential plans “If a sewer service falls under a driveway during construction of a home it shall be relocated or a MAG 441 cleanout installed at the PUE line at the City’s discretion.”	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">6.3.1(E.1.b)</a>

The trench must be compacted to its required density, and required ABC must be in place and compacted prior to the placement of the asphalt concrete.

For cuts greater than 300 feet in length the entire area shall then be slurry seal coated in accordance with Section [332](#) or as otherwise specified. This seal coat shall extend from the edge of pavement or lip of gutter to the street centerline except that on residential streets less than 36 feet face to face of curb or where the pavement patch straddles the centerline, the entire width of street shall be seal coated.

In lieu of placing the seal coat as required previously, and with approval of the Contracting Agency, the Contractor may deposit with the Contracting Agency for credit to the Street Maintenance Department, a negotiated agreed upon amount. The Street Maintenance Department will incorporate this work into their street maintenance program.